

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Jeffrey Jacobs Reg. # 40,029 on 8/24/2012.

The application has been amended as follows:

Claims 28. (Cancelled)

Claims 29. (Cancelled)

Claims 31. (Cancelled)

Allowable Subject Matter

3. Claims 1, 2, 5, 7-12, 16, and 18-22 26, 27, and 32-33 are allowed.

4. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, independent claims 1 and 12, the prior art teaches a method and apparatus, comprising: receiving a filter parameter at a satellite in orbit receiving an input signal at the satellite and programming a filter in the satellite to separate a plurality

of sub-signals from the input signal based on the filter parameter and filtering the input signal into the plurality of sub-signals as programmed based on the filter parameter translating the plurality of sub-signals into an output signal and transmitting the output signal from the satellite.

However, the prior art does not specifically teach wherein translating the plurality of sub-signals into an output signal, wherein translating the plurality of sub-signals comprises: multiplying the first sub-signal by a first number to produce a first amplified signal; multiplying the second sub-signal by a second number to produce a second amplified signal, the second number being different from the first number; and adding the first amplified signal and the second amplified signal.

Claims 2, 5, 7-11, 16, and 18-22 are dependent on independent claims 1 and 12.

Regarding independent claims 26, 32, and 33 the cited prior art does not teach or fairly suggest of a method and/or apparatus of operating a communications system, comprising: establishing a first portion of a frequency bandwidth to be received and processed by a satellite as a forward uplink, and a second portion of the frequency bandwidth to be received and processed by the satellite as a return uplink, the first and second portions comprising the total of the frequency bandwidth; monitoring traffic volume on each of the forward and return uplinks;

determining a third portion of the frequency bandwidth to be received and processed by a satellite as a forward uplink, and a fourth portion of the frequency

bandwidth to be received and processed by the satellite as a return uplink, the third and fourth portions comprising the total of the frequency bandwidth;

transmitting instructions to the satellite, the satellite including circuitry responsive to the transmitted instructions, such that the amount of frequency bandwidth allocated to the forward and return uplinks is allocated in proportion to the monitored traffic volume on each of the forward and return uplinks.

Claims 27 is dependent on allowable independent claim 26.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RICHARD CHAN whose telephone number is (571)272-0570. The examiner can normally be reached on Mon-Fri 10AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Temesghen Ghebretinsae can be reached on 571-272-3017. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RICHARD CHAN/
Examiner, Art Unit 2618
9/13/2012

/TEMESGHEN GHEBRETINSAE/
Supervisory Patent Examiner, Art Unit 2618
8/24/12